



## SMA Male Connector Crimp/Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

**PE4398**

#### Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms

- Straight Body Geometry
- Connector Interface Types: RG178, RG196
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 1 GHz
- Good VSWR of 1.3:1

- Gold Plated Brass Contact
- 50  $\mu$ in minimum contact plating

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4398 SMA male connector with crimp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 1 GHz and offers good VSWR of 1.3:1.

Our SMA male connector PE4398 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.3:1	
Operating Voltage (AC)			250	Vrms

#### Mechanical Specifications

##### Size

Length  
Width/Dia.

1.047 in [26.59 mm]  
0.315 in [8.00 mm]

Weight

0.019 lbs [8.62 g]

Mating Torque

3 to 5 in-lbs [0.34 to 0.57 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG178, RG196 PE4398](#)



## SMA Male Connector Crimp/Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

**PE4398**

#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50 $\mu$ in minimum
Insulation	PTFE	
Body	Brass	Nickel 100 $\mu$ in minimum
Coupling Nut	Brass	Nickel 100 $\mu$ in minimum
Crimp Sleeve	Brass	Nickel

#### Environmental Specifications

##### Temperature

Operating Range

-65 to +165 deg C

#### Compliance Certifications (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

SMA Male Connector Crimp/Solder Attachment for RG178, RG196 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Crimp/Solder Attachment for RG178, RG196 PE4398](#)

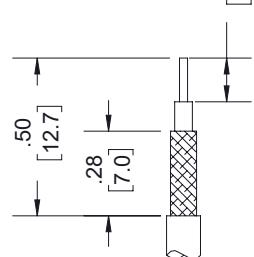
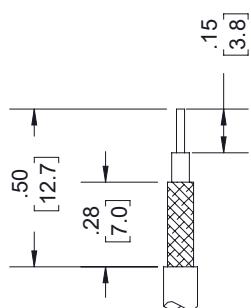
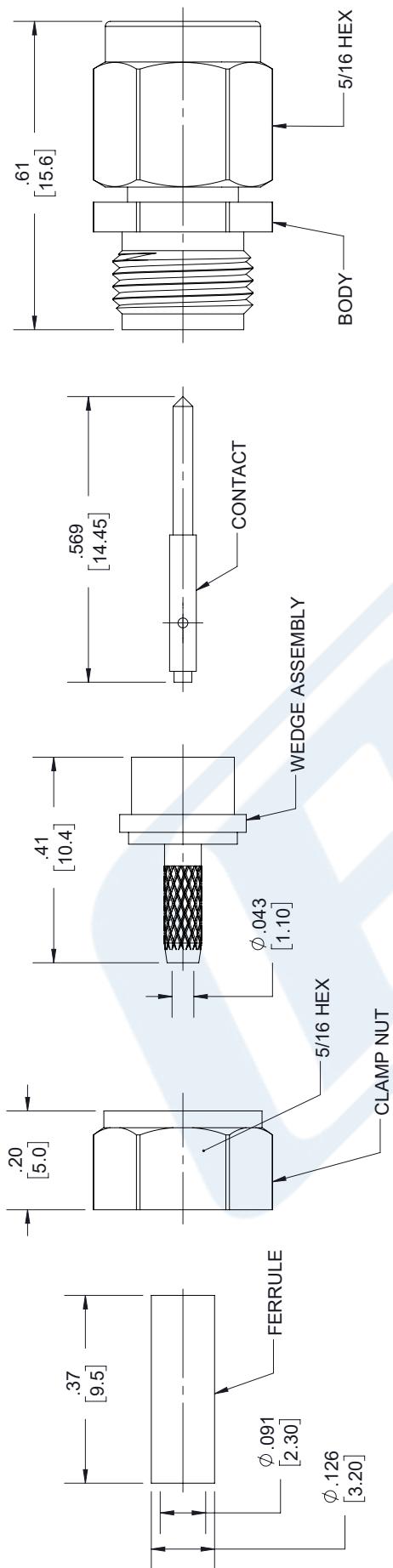
URL: <https://www.pasternack.com/sma-male-standard-rg178-rg196-connector-pe4398-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE4398 CAD Drawing

SMA Male Connector Crimp/Solder Attachment for RG178, RG196

REVISIONS					
REV.	DESCRIPTION	DATE	APPROVED		
A	PCR PE4398 2020/09/02	09/22/20	SRAUTUS		



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SHEET 1 OF 1		
SCALE	N/A	
ITEM NO.	PE4398	REV A
SIZE	CAGE CODE	DRAWN BY
A	53919	SLI



## SMB Jack Connector Clamp/Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

PE4269

#### Configuration

- SMB Jack Connector
- 50 Ohms
- Straight Body Geometry

- RG178, RG196 Interface Type
- Clamp/Solder Attachment

#### Features

- Max. Operating Frequency 4 GHz
- Good VSWR of 1.46:1

- Gold Plated Brass Contact
- Contact plating according to MIL-PRF-39012

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE4269 SMB jack connector with clamp/solder attachment for RG178 and RG196 is part of our full line of RF components available for same-day shipping. Our SMB jack connector operates up to a maximum frequency of 4 GHz and offers good VSWR of 1.46:1.

Our SMB jack connector PE4269 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.46:1	
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
High Potential Voltage at 5 MHz			400	Vrms
Corona Discharge at 70,000 feet			125	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Jack Connector Clamp/Solder Attachment for RG178, RG196 PE4269](#)



## SMB Jack Connector Clamp/Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

PE4269

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1.5					GHz
Insertion Loss, Max	0.3					dB

#### Electrical Specification Notes:

RF leakage: 55 dB min at 2 to 3 GHz.

#### Mechanical Specifications

##### Size

Length  
Width/Dia.

0.65 in [16.51 mm]  
0.22 in [5.59 mm]

##### Weight

Mating Cycles

0.005 lbs [2.27 g]  
500 Cycles

#### Material Specifications

Description	Material	Plating
Contact	Brass	Gold MIL-PRF-39012
Insulation	PTFE	
Body	Brass	Nickel MIL-PRF-39012

#### Environmental Specifications

##### Temperature

Operating Range  
Shock  
Vibration  
Thermal Shock  
Salt Spray

-65 to +165 deg C  
MIL-STD-202, Method 213, Condition B  
MIL-STD-202, Method 204, Condition B  
MIL-STD-202, Method 107, Condition B  
MIL-STD-202, Method 101, Condition B, 5% salt solution

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Jack Connector Clamp/Solder Attachment for RG178, RG196 PE4269](#)



## SMB Jack Connector Clamp/Solder Attachment for RG178, RG196

### RF Connectors Technical Data Sheet

PE4269

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

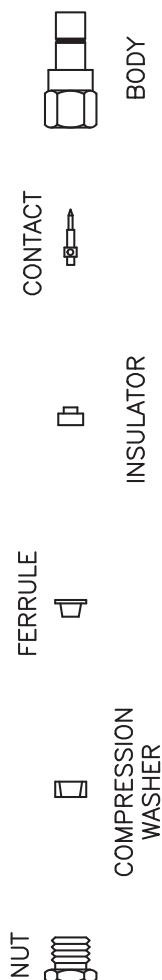
Notes:

SMB Jack Connector Clamp/Solder Attachment for RG178, RG196 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Jack Connector Clamp/Solder Attachment for RG178, RG196 PE4269](#)

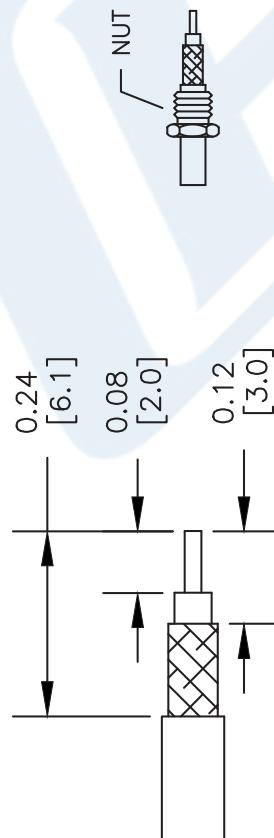
URL: <https://www.pasternack.com/smb-jack-standard-rg178-rg196-connector-pe4269-p.aspx>

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### ASSEMBLY PROCEDURES

1. TRIM CABLE AS SHOWN. TIN CENTER CONDUCTOR. SLIDE NUT ONTO CABLE.



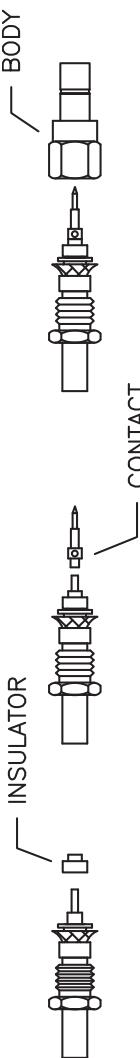
2. SLIDE COMPRESSION WASHER OVER THE BRAID UNTIL IT BOTTOMS OUT ON THE CABLE JACKET. FAN OUT BRAID RADIALLY AGAINST THE COMPRESSION WASHER BY ROTATING THE CABLE DIELECTRIC.



3. SLIDE FERRULE ONTO CABLE, OVER DIELECTRIC AND UNDER BRAID. PUSH INTO WASHER UNTIL IT STOPS. IF NECESSARY TRIM EXCESS BRAID FLUSH WITH SURFACE OF COMPRESSION WASHER AND FLANGE OF FERRULE.



4. INSTALL SMALL INSULATOR OVER CABLE DIELECTRIC. SOLDER CONTACT TO CENTER CONDUCTOR. INSERT CABLE ASSEMBLY INTO BODY AND TIGHTEN.



NOTES:  
 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
 3. DIMENSIONS ARE IN INCHES [mm].  
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

**PE4269**

DWG TITLE

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REV. A	FSCM NO.	53919	CAD FILE	090808	SCALE N/A	SIZE A	2233
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## Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket

### RF Cables Technical Data Sheet

**RG196A/U**

#### Configuration

- Flexible Cable
- 1 Shield(s)

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			2,000	Vrms
Nominal Capacitance		32 [104.99]		pF/ft [pF/m]

#### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	400					MHz
Attenuation, Typ	33					dB/100ft
	108.27					dB/100m

#### Mechanical Specifications

Diameter	0.08 in [2.03 mm]
Weight	0.005 lbs/ft [0.01 Kg/m]

#### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 7 Strands	0.011 in [0.28 mm]
Conductor Type	Stranded	
Dielectric	PTFE	0.035 in [0.89 mm]
First Shield	Silver Plated Copper Braid 92.3% coverage	0.054 in [1.37 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket RG196A/U](#)

## Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket

### RF Cables Technical Data Sheet

**RG196A/U**

Jacket	PTFE, White	0.08 in [2.03 mm]
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#### **Environmental Specifications**

##### **Temperature**

Operating Range

-55 to +200 deg C

**Compliance Certifications** (see [product page](#) for current document)

#### **Plotted and Other Data**

Notes:

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

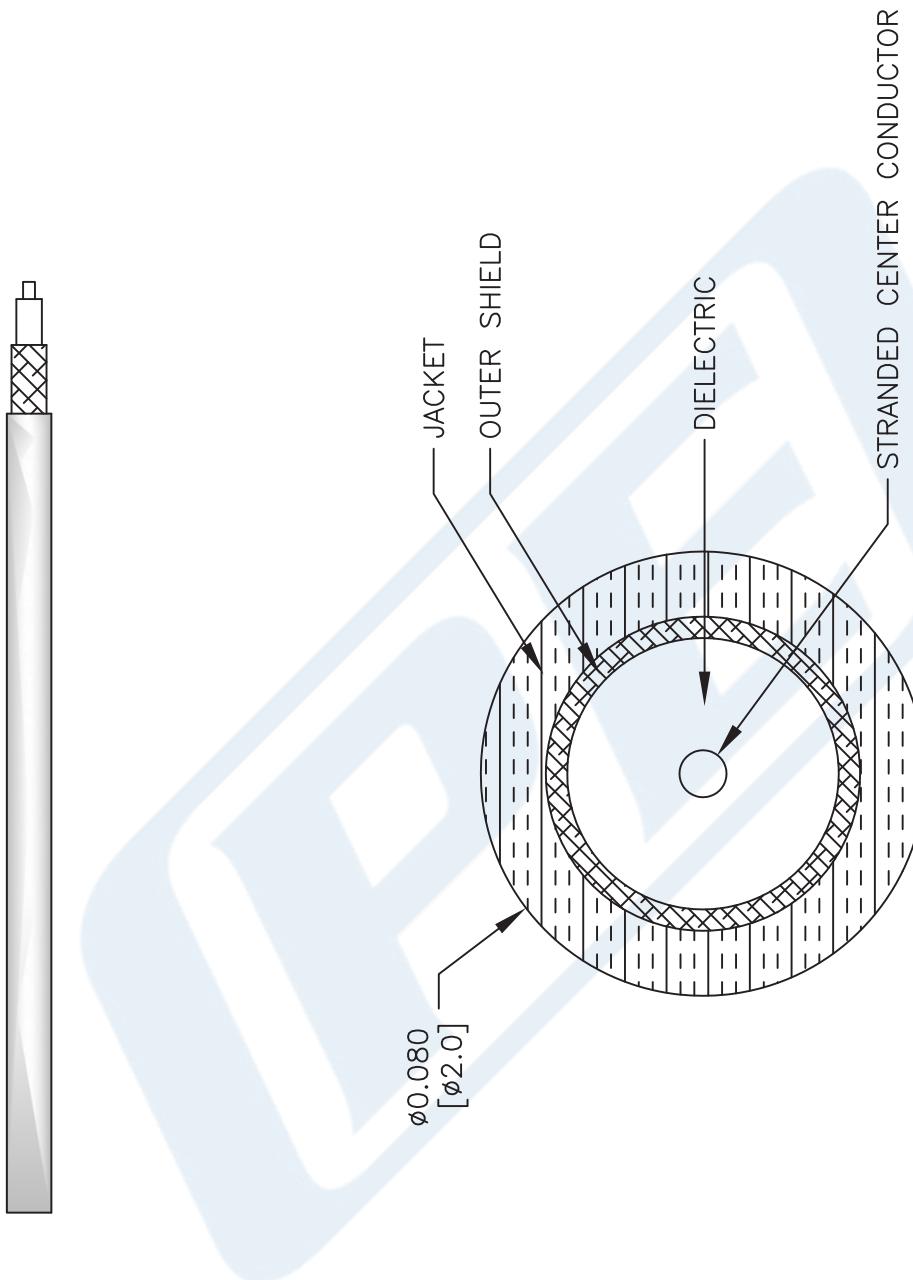
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket RG196A/U](#)

URL: <https://www.pasternack.com/flexible-0.080-rg196-50-ohm-coax-cable-ptfe-jacket-rg196a-u-p.aspx>

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# RG196A/U CAD Drawing

Flexible RG196 Coax Cable Single Shielded with White PTFE Jacket



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DWG TITLE	RG196A/U
FSCM NO.	53919

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SIZE A	41742
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